

S t Nam Qu ry
side by side

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

<u>L7</u>	(OMV or outer adj membrane adj vesicle\$) same immune adj enhanc\$	2	<u>L7</u>
<u>L6</u>	(OMV or outer adj membrane adj vesicle\$) same immune adj stimulant\$	0	<u>L6</u>
<u>L5</u>	(OMV or outer adj membrane adj vesicle\$) same immunostimulant\$	0	<u>L5</u>
<u>L4</u>	L3 same mening\$	14	<u>L4</u>
<u>L3</u>	OMV or outer adj membrane adj vesicle\$ same immunostimulant\$	219	<u>L3</u>
<u>L2</u>	L1 same conjugat\$	9	<u>L2</u>
<u>L1</u>	OMV or outer adj membrane adj vesicle\$ same adjuvant\$	227	<u>L1</u>

Hit Count S t Nam
result set

END OF SEARCH HISTORY

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Terms	Documents
L1 and OMP	2

US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index

Database: IBM Technical Disclosure Bulletins**Search:**[Refine Search](#)[Recall Text](#)[Clear](#)**Search History****DATE:** Friday, March 14, 2003 [Printable Copy](#) [Create Case](#)**S + Name Query**

side by side

Hit Count**Set Name**

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

<u>L2</u>	L1 and OMP	2	<u>L2</u>
<u>L1</u>	mening\$ adj5 C same oligosacchar\$ same conjugat\$	17	<u>L1</u>

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 17 returned.** 1. Document ID: US 20010048929 A1

L1: Entry 1 of 17

File: PGPB

Dec 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010048929

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010048929 A1

TITLE: NOVEL MULTI-OLIGOSACCHARIDE GLYCOCONJUGATE BACTERIAL MENINGITIS VACCINES

PUBLICATION-DATE: December 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
CHONG, PELE	RICHMOND HILL		CA	
LINDBERG, ALF	LYON		FR	
KLEIN, MICHEL	WILLOWDALE		CA	

US-CL-CURRENT: 424/234.1; 424/236.1, 424/244.1, 424/249.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC
Draw	Desc	Image									

 2. Document ID: US 6413520 B1

L1: Entry 2 of 17

File: USPT

Jul 2, 2002

US-PAT-NO: 6413520

DOCUMENT-IDENTIFIER: US 6413520 B1

TITLE: Methods of immunizing adults using anti-meningococcal vaccine compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC
Draw	Desc	Image									

3. Document ID: US 6403099 B1

L1: Entry 3 of 17

File: USPT

Jun 11, 2002

US-PAT-NO: 6403099

DOCUMENT-IDENTIFIER: US 6403099 B1

TITLE: *Conjugates formed from heat shock proteins and oligo- or polysaccharides*

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC
Drawn Desc Image											

 4. Document ID: US 6251401 B1

L1: Entry 4 of 17

File: USPT

Jun 26, 2001

US-PAT-NO: 6251401

DOCUMENT-IDENTIFIER: US 6251401 B1

TITLE: *Combined meningitis vaccine*

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC
Drawn Desc Image											

 5. Document ID: US 6168796 B1

L1: Entry 5 of 17

File: USPT

Jan 2, 2001

US-PAT-NO: 6168796

DOCUMENT-IDENTIFIER: US 6168796 B1

TITLE: *Immunostimulating activity of Streptococcus pneumoniae serotype 8 oligosaccharides*

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC
Drawn Desc Image											

 6. Document ID: US 6132723 A

L1: Entry 6 of 17

File: USPT

Oct 17, 2000

US-PAT-NO: 6132723

DOCUMENT-IDENTIFIER: US 6132723 A

TITLE: Immunogenic oligosaccharide compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc Image									KIMC

 7. Document ID: US 5916571 A

L1: Entry 7 of 17

File: USPT

Jun 29, 1999

US-PAT-NO: 5916571

DOCUMENT-IDENTIFIER: US 5916571 A

TITLE: Immunostimulating activity of streptococcus pneumoniae serotype 8 oligosaccharides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc Image									KIMC

 8. Document ID: US 5866132 A

L1: Entry 8 of 17

File: USPT

Feb 2, 1999

US-PAT-NO: 5866132

DOCUMENT-IDENTIFIER: US 5866132 A

TITLE: Immunogenic oligosaccharide compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc Image									KIMC

 9. Document ID: US 5855901 A

L1: Entry 9 of 17

File: USPT

Jan 5, 1999

US-PAT-NO: 5855901

DOCUMENT-IDENTIFIER: US 5855901 A

TITLE: Immunostimulating activity of Streptococcus pneumoniae serotype 8 oligosaccharides

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc Image									KIMC

10. Document ID: US 5807553 A

L1: Entry 10 of 17

File: USPT

Sep 15, 1998

US-PAT-NO: 5807553

DOCUMENT-IDENTIFIER: US 5807553 A

TITLE: Immunogenic oligosaccharide compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KOMC

Terms	Documents
mening\$ adj5 C same oligosacchar\$ same conjugat\$	17

Display Format: Previous Page Next Page

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 11 through 17 of 17 returned.** **11. Document ID: US 5695768 A**

L1: Entry 11 of 17

File: USPT

Dec 9, 1997

US-PAT-NO: 5695768

DOCUMENT-IDENTIFIER: US 5695768 A

TITLE: Immunostimulating activity of *Streptococcus pneumoniae* serotype 8 oligosaccharides

Full	Title	Citation	Front	Review	Classification	Data	Reference	Sequences	Attachments
Draw	Desc	Image							

KIMC

 12. Document ID: US 4711779 A

L1: Entry 12 of 17

File: USPT

Dec 8, 1987

US-PAT-NO: 4711779

DOCUMENT-IDENTIFIER: US 4711779 A

TITLE: Glycoprotein conjugates having trivalent immunogenic activity

Full	Title	Citation	Front	Review	Classification	Data	Reference	Sequences	Attachments
Draw	Desc	Image							

KIMC

 13. Document ID: US 4356170 A

L1: Entry 13 of 17

File: USPT

Oct 26, 1982

US-PAT-NO: 4356170

DOCUMENT-IDENTIFIER: US 4356170 A

TITLE: Immunogenic polysaccharide-protein conjugates

Full	Title	Citation	Front	Review	Classification	Data	Reference	Sequences	Attachments
Draw	Desc	Image							

KIMC

 14. Document ID: WO 9942130 A1

L1: Entry 14 of 17

File: EPAB

Aug 26, 1999

PUB-NO: WO009942130A1

DOCUMENT-IDENTIFIER: WO 9942130 A1

TITLE: MULTI-OLIGOSACCHARIDE GLYCOCONJUGATE BACTERIAL MENINGITIS VACCINES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KM/C
Draw Desc Image										

 15. Document ID: WO 9317712 A2

L1: Entry 15 of 17

File: EPAB

Sep 16, 1993

PUB-NO: WO009317712A2

DOCUMENT-IDENTIFIER: WO 9317712 A2

TITLE: CONJUGATES FORMED FROM HEAT SHOCK PROTEINS AND OLIGO- OR POLYSACCHARIDES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KM/C
Draw Desc Image										

 16. Document ID: WO 9961053 A1 JP 2002516292 W AU 9942215 A BR 9910749 A EP 1079857 A1

L1: Entry 16 of 17

File: DWPI

Dec 2, 1999

DERWENT-ACC-NO: 2000-097070

DERWENT-WEEK: 200239

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TITLE: Immunogenic composition for the prevention and treatment of diseases caused by serogroups B and C strains of *Neisseria meningitidis*

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KM/C
Draw Desc Image										

17. Document ID: WO 9614086 A1 US 6251401 B1 EP 789587 A1 JP
10509701 W

L1: Entry 17 of 17

File: DWPI

May 17, 1996

DERWENT-ACC-NO: 1996-251554

DERWENT-WEEK: 200138

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TITLE: Combined vaccine against meningitis contg. oligosaccharide conjugates - of *Haemophilus influenzae* and *Neisseria meningitidis* serotype *C*.

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [KMIC](#) |
[Draw Desc](#) | [Image](#)

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Terms	Documents
mening\$ adj5 C same oligosacchar\$ same conjugat\$	17

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L4: Entry 11 of 14

File: DWPI

May 7, 2002

DERWENT-ACC-NO: 2002-436218

DERWENT-WEEK: 200247

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TITLE: Meningitis type B and C vaccine comprises meningococcus outer membrane vesicles as an antigen for polysaccharide matter

INVENTOR: FUKASAWA, L O; OUTEIRO GORLA, M C ; RAW, I ; SCHENKMAN, R P F ; TANIZAKI, M M

PATENT-ASSIGNEE:

ASSIGNEE	CODE
FUKASAWA L O	FUKAI
FUNDACAO BUTANTAN	BUTAN
OUTEIRO GORLA M C	GORLI
SCHENKMAN R P F	SCHEI
TANIZAKI M M	TANII

PRIORITY-DATA: 2000BR-0004568 (August 29, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 200004568 A	May 7, 2002		001	A61K039/095

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
BR 200004568A	August 29, 2000	2000BR-0004568	

INT-CL (IPC): A61 K 39/095; A61 P 31/04

ABSTRACTED-PUB-NO: BR 200004568A

BASIC-ABSTRACT:

NOVELTY - A meningitis type B and C vaccine comprising PS C (capsular polysaccharide serum group C) and outer membrane vesicles (OMV) of meningococcus serum group B.

An INDEPENDENT CLAIM is also included for producing the vaccine, using the capacity of the OMV to charge the PS C and as an antigen for the serum group B.

USE - A vaccine for meningitis type B and C.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: MENINGITIS TYPE VACCINE COMPRIZE MENINGOCOCCUS OUTER MEMBRANE VESICLE ANTIGEN POLYSACCHARIDE MATTER

DERWENT-CLASS: B04 D16

CPI-CODES: B04-B04C1; B04-C02F; B14-A01A5; B14-S11B; D05-H07;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2002-123987

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L4: Entry 14 of 14

File: DWPI

Apr 14, 1994

DERWENT-ACC-NO: 1994-135585

DERWENT-WEEK: 199810

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TITLE: New B cell activating molecules from meningococcal lipo:polysaccharide - and derived peptide conjugates, outer membrane vesicles etc. useful in vaccines effective against several meningococcal immunotypes.

INVENTOR: HOOGERHOUT, P; POOLMAN, J T ; VAN DER LEY, P A

PATENT-ASSIGNEE:

ASSIGNEE	CODE
NEDERLANDEN MIN WELZIJN	NEWEN
STAAT NEDERLANDEN MIN VAN WELZIJN	NEWEN

PRIORITY-DATA: 1992NL-0001716 (October 2, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9408021 A1	April 14, 1994	E	062	C12N015/61
AU 684720 B	January 8, 1998		000	C08B037/00
NL 9201716 A	May 2, 1994		000	A61K047/48
AU 9348351 A	April 26, 1994		000	C12N015/61
NO 9501181 A	June 1, 1995		000	C12N000/00
FI 9501535 A	June 1, 1995		000	A61K000/00
EP 680512 A1	November 8, 1995	E	000	C12N015/61
JP 08501940 W	March 5, 1996		076	C12N015/09
US 5705161 A	January 6, 1998		024	A61K039/095

DESIGNATED-STATES: AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US VN AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

CITED-DOCUMENTS: 6. Jnl. Ref; NL 9101359 ; WO 9006696

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9408021A1	July 30, 1993	1993WO-NL00163	
AU 684720B	July 30, 1993	1993AU-0048351	
AU 684720B		AU 9348351	Previous Publ.
AU 684720B		WO 9408021	Based on
NL 9201716A	October 2, 1992	1992NL-0001716	
AU 9348351A	July 30, 1993	1993AU-0048351	
AU 9348351A		WO 9408021	Based on
NO 9501181A	July 30, 1993	1993WO-NL00163	
NO 9501181A	March 28, 1995	1995NO-0001181	
FI 9501535A	July 30, 1993	1993WO-NL00163	
FI 9501535A	March 31, 1995	1995FI-0001535	
EP 680512A1	July 30, 1993	1993EP-0921120	
EP 680512A1	July 30, 1993	1993WO-NL00163	
EP 680512A1		WO 9408021	Based on
JP 08501940W	July 30, 1993	1993WO-NL00163	
JP 08501940W	July 30, 1993	1994JP-0508917	
JP 08501940W		WO 9408021	Based on
US 5705161A	July 30, 1993	1993WO-NL00163	
US 5705161A	May 1, 1995	1995US-0411727	
US 5705161A		WO 9408021	Based on

INT-CL (IPC): A61 K 0/00; A61 K 39/00; A61 K 39/095; A61 K 45/00; A61 K 47/48; C07 H 1/00; C07 K 9/00; C07 K 14/195; C07 K 15/00; C08 B 37/00; C12 N 0/00; C12 N 1/21; C12 N 15/00; C12 N 15/09; C12 N 15/31; C12 N 15/61; C12 N 15/62; C12 P 19/04; C12 P 19/34; C12 N 1/21; C12 R 1:36; C12 N 1/21; C12 R 1:36; C12 N 1/21; C12 R 1:36

ABSTRACTED-PUB-NO: US 5705161A

BASIC-ABSTRACT:

New immunity-providing B-cell activating molecule (A) derived from meningococcal lipopolysaccharide (LPS) with at least one epitope, comprises at least the communal part of the oligosaccharide (core region) of LPS specific for at least 2 meningococcal immunotypes (pref. L2 and L3) with galactose absent from the B-cell activating part. Also included are derivs. of (A) with immune-reaction inducing activity.

Also new are (1) saccharide-peptide conjugates (SPC) contg. (A) as saccharide component conjugated to a peptide part having at least one conjugated to a peptide part having at least one T helper cell activating epitope; (2) outer membrane vesicles (OMV) contg. (A) and/or SPC; (3) OMV having a gp. of polypeptides with immunoactivity of outer membrane proteins (OMP) bound to a membrane, at least one of these having a mutation in a surface loop; (4) nucleic acid encoding recombinant OM1 (or fragments) carrying such a mutation; (5) expression vectors contg. this nucleic acid; (6) microorganism contg. such nucleic acid or vectors; (7) OMP-derived polypeptides which have a surface loop mutation; (8) nucleic acid encoding LPS that differs from wild type in having a mutation causing expression of no (functional) galE; (9) expression

vectors and microorganisms contg. this nucleic acid; (10) mutated meningococcal strains that produce galactose-free LPS or no functional galE.

USE/ADVANTAGE - OMV SPC, the nucleic acids, expression vectors, transformed cells and polypeptides are all useful in vaccines to protect against gp. B meningococci. (A) represent small B-cell activating molecules that are easy to obtain, non-toxic and able to induce immunity against several immunotypes. Insertion of mutations in surface loops allows attachment of the saccharide component without altering the tert. structure (immunogenicity) of the saccharide.

ABSTRACTED-PUB-NO:

WO 9408021A

EQUIVALENT-ABSTRACTS:

New immunity-providing B-cell activating molecule (A) derived from meningococcal lipopolysaccharide (LPS) with at least one epitope, comprises at least the communal part of the oligosaccharide (core region) of LPS specific for at least 2 meningococcal immunotypes (pref. L2 and L3) with galactose absent from the B-cell activating part. Also included are derivs. of (A) with immune-reaction inducing activity.

Also new are (1) saccharide-peptide conjugates (SPC) contg. (A) as saccharide component conjugated to a peptide part having at least one conjugated to a peptide part having at least one T helper cell activating epitope; (2) outer membrane vesicles (OMV) contg. (A) and/or SPC; (3) OMV having a gp. of polypeptides with immunoactivity of outer membrane proteins (OMP) bound to a membrane, at least one of these having a mutation in a surface loop; (4) nucleic acid encoding recombinant OM1 (or fragments) carrying such a mutation; (5) expresion vectors contg. this nucleic acid; (6) microorganism contg. such nucleic acid or vectors; (7) OMP-derived polypeptides which have a surface loop mutation; (8) nucleic acid encoding LPS that differs from wild type in having a mutation causing expression of no (functional) galE; (9) expression vectors and microorganisms contg. this nucleic acid; (10) mutated meningococcal strains that produce galactose-free LPS or no functional galE.

USE/ADVANTAGE - OMV SPC, the nucleic acids, expression vectors, transformed cells and polypeptides are all useful in vaccines to protect against gp. B meningococci. (A) represent small B-cell activating molecules that are easy to obtain, non-toxic and able to induce immunity against several immunotypes. Insertion of mutations in surface loops allows attachment of the saccharide component without altering the tert. structure (immunogenicity) of the saccharide.

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/0

TITLE-TERMS: NEW CELL ACTIVATE MOLECULAR MENINGOCOCCUS LIPO POLYSACCHARIDE DERIVATIVE PEPTIDE CONJUGATE OUTER MEMBRANE VESICLE USEFUL VACCINE EFFECT MENINGOCOCCUS

DERWENT-CLASS: B04 D16

CPI-CODES: B04-C01; B04-C02F; B04-C02V; B04-C02X; B04-E02F; B04-E08; B04-F10A5E; B04-N03; B04-N04; B14-G01; B14-S11B; D05-C12; D05-H07; D05-H10; D05-H12B2; D05-H12E; D05-H14A1; D05-H17B5;

CHEMICAL-CODES:

Chemical Indexing M1 *01*

Fragmentation Code

M423 M710 M903 P210 P220 Q233 V288 V500 V540 V735
V753 V901 V917

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1994-062771

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Terms	Documents
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